

PATENT COOPERATION TREATY

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PES -
PCT P10038

From the INTERNATIONAL SEARCHING AUTHORITY

To:

BLAKELY, SOKOLOFF, TAYLOR
& ZAFMAN LLP
Attn. MALLIE, Michael, J.
12400 Wilshire Boulevard
7th Floor
Los Angeles, California 90025
UNITED STATES OF AMERICA

RECEIVED

APR 05 2004

NOTIFICATION OF TRANSMITTAL OF
THE INTERNATIONAL SEARCH REPORT
OR THE DECLARATION

(PCT Rule 44.1)

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP
LOS ANGELES

Date of mailing
(day/month/year)

26/07/2002

Applicant's or agent's file reference

42390.10038PCT

FOR FURTHER ACTION

See paragraphs 1 and 4 below

International application No.

PCT/US 02/04217

International filing date
(day/month/year)

11/02/2002

Applicant

INTEL CORPORATION

ENTERED

APR - 6 2004

STATUS DB-LA

**NO DOCKETING REQUIRED
AD
PCT RETIRED**

1. ☒ The applicant is hereby notified that the International Search Report has been established and is transmitted herewith.

Filing of amendments and statement under Article 19:

The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46):

When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet.

Where? Directly to the International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland
Facsimile No.: (41-22) 740.14.35

For more detailed instructions, see the notes on the accompanying sheet.

2. ☐ The applicant is hereby notified that no International Search Report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.

3. ☐ With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:

☐ the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.

☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. **Further action(s):** The applicant is reminded of the following:

Shortly after 18 months from the priority date, the international application will be published by the International Bureau.

If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.

Within 19 months from the priority date, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later).

Within 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the priority date or could not be elected because they are not bound by Chapter II.

Name and mailing address of the International Searching Authority



European Patent Office, P.B. 5818 Patentlaan 2
NL-2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Petros Koutsoftas

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

1. [Where originally there were 48 claims and after amendment of some claims there are 51]:
"Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
2. [Where originally there were 15 claims and after amendment of all claims there are 11]:
"Claims 1 to 15 replaced by amended claims 1 to 11."
3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
"Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
"Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
4. [Where various kinds of amendments are made]:
"Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the time of filing the amendments (and any statement) with the International Bureau, also file with the International Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCT/IPEA/401).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 02/04217

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☒ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-15

Intensity control of a pixel by use of subpixels and pulse-width modulated waveform

2. claims: 16-22

Intensity control of a pixel by use of pulse-width and amplitude modulated waveform

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 02/04217

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G09G3/36

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G09G

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 714 085 A (FUJITSU GENERAL LTD)	1,7
Y	29 May 1996 (1996-05-29)	6,8-15
	abstract	
	column 1, line 8 - line 15	
	column 1, line 44 - line 52	
	column 2, line 11 - line 16; figure 2	
	column 2, line 44 - line 53; figures	
	1A,3A,3B	
	column 5, line 6 - line 23; figure 6	
	column 5, line 53 - column 6, line 23;	
	figure 7A	
A	---	2-5
	-/--	

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

4 March 2004

Date of mailing of the international search report

03.04.04

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
 Fax: (+31-70) 340-3016

Authorized officer

Corsi, F

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 848 369 A (SECR DEFENCE BRIT ; SHARP KK (JP)) 17 June 1998 (1998-06-17) abstract page 2, line 16 - line 46 page 3, line 2 - line 15 page 5, line 58 - page 6, line 43; figures 4,5 page 7, line 39 - line 43 page 8, line 27 - line 34 ---	1-15
A	EP 0 685 832 A (SHARP KK) 6 December 1995 (1995-12-06) abstract page 2, line 5 - line 6 page 3, line 8 - line 15 page 9, line 28 - page 10, line 7; figures 11,14 ---	1-15
Y	US 6 144 364 A (OTAKA NOBUAKI ET AL) 7 November 2000 (2000-11-07) abstract column 27, line 61 - column 29, line 3; figures 39,40 column 34, line 27 - column 35, line 44 ---	8-10, 12-15
Y	US 5 861 869 A (CONNER ARLIE R ET AL) 19 January 1999 (1999-01-19) abstract column 7, line 65 - column 9, line 42; figures 3A,3B,5A,5B ---	10
Y	US 5 124 695 A (GREEN IAN M) 23 June 1992 (1992-06-23) abstract column 1, line 35 - line 45; figure 1 column 3, line 1 - line 11 ---	6,11
X,P	EP 1 091 342 A (MATSUSHITA ELECTRIC IND CO LTD) 11 April 2001 (2001-04-11) paragraph '0152! - paragraph '0154!; figure 11 paragraph '0149!; figure 10 abstract paragraph '0407! - paragraph '0408!; figure 52 --- -/--	1,7

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>US 6 094 243 A (YASUNISHI NORIO) 25 July 2000 (2000-07-25) abstract column 1, line 54 - line 59 column 2, line 21 - column 3, line 8 column 3, line 43 - line 51 column 6, line 52 - line 63 column 7, line 7 - line 11 column 10, line 41 - line 56 column 11, line 38 - column 12, line 16; figure 1 column 14, line 17 - column 15, line 44; table 1 column 16, line 42 - line 48; figure 4 column 18, line 64 - column 19, line 3; figure 9</p> <p>---</p>	16-22
X	<p>US 5 745 089 A (NISHITANI SHIGEYUKI ET AL.) 28 April 1998 (1998-04-28) abstract column 9, line 1 - line 26; figures 1, 10-12 column 16, line 31 - column 17, line 10; figures 13-15</p> <p>---</p>	16, 17, 19-21
A	<p>PATENT ABSTRACTS OF JAPAN vol. 017, no. 451 (P-1595), 18 August 1993 (1993-08-18) -& JP 05 100630 A (SEMICONDUCTOR ENERGY LAB CO LTD), 23 April 1993 (1993-04-23) abstract</p>	16-22
A, P	<p>-& US 6 215 466 B1 (YAMAZAKI ET AL.) 10 April 2001 (2001-04-10) abstract column 2, line 27 - line 51 column 3, line 4 - line 58 column 7, line 4 - line 6; figures 2, 3</p> <p>-----</p>	16-22

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US. 02/04217

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0714085	A	29-05-1996	JP 3139312 B2	26-02-2001
			JP 8152863 A	11-06-1996
			AU 701200 B2	21-01-1999
			AU 3798695 A	30-05-1996
			CA 2163155 A1	26-05-1996
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			US 6069610 A	30-05-2000
EP 0848369	A	17-06-1998	GB 2320357 A	17-06-1998
			EP 0848369 A2	17-06-1998
			JP 10260392 A	29-09-1998
			US 6094187 A	25-07-2000
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			EP 0685832 A1	06-12-1995
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			JP 10031455 A	03-02-1998
			FR 2740253 A1	25-04-1997
			JP 3365630 B2	14-01-2003
			JP 2002278511 A	27-09-2002
			US 2002130826 A1	19-09-2002
			US 6417835 B1	09-07-2002
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			AT 155919 T	15-08-1997
			AU 3851193 A	18-11-1993
			CA 2095978 A1	15-11-1993
			DE 69312389 D1	04-09-1997
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			EP 0569974 A2	18-11-1993
			JP 6089082 A	29-03-1994
			US 5642133 A	24-06-1997
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			AU 7103794 A	03-01-1995
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			DE 3785282 D1	13-05-1993
			DE 3785282 T2	21-10-1993
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			JP 6064421 B	22-08-1994
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			JP 2001175216 A	29-06-2001
			TW 473641 B	21-01-2002
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			KR 246150 B1	15-03-2000
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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 02/04217

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		CN 1072271 A ,B	19-05-1993
		KR 9603961 B1	25-03-1996
		US 6215466 B1	10-04-2001
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